

**FUTURE FISHERIES IMPROVEMENT PROGRAM
GRANT APPLICATION**

(Please fill in the highlighted areas)

all sections (IA, IB, IC, etc.) must be addressed or the application will be considered invalid

I. APPLICANT INFORMATIONA. Applicant Name: Ladd Knotek – MFWP Fisheries BiologistB. Mailing Address: Region 2 FWP Headquarters, 3201 Spurgin RoadC. City: Missoula State: MT Zip: 59804Telephone: (406) 542-5506 E-mail: lknotek@mt.govD. Contact Person: Same as aboveAddress if different from Applicant: City: State: Zip: Telephone: E-mail: E. Landowner and/or Lessee Name
(if other than Applicant): Montana Fish, Wildlife, & Parks (MFWP)Mailing Address: City: State: Zip: Telephone: E-mail: **II. PROJECT INFORMATION***A. Project Name: Marshall Cr WMA Watershed Restoration - Phase VI & VIIRiver, stream, or lake: Deer CreekLocation: Township: 17 N Range: 16 W Section: 8,9
Latitude: 47.2448 Longitude: 113.6638 *within project (decimal degrees)*County: Missoula

B. Purpose of Project:

Remove headwater stream crossings and road systems in upper Deer Creek to protect and enhance native bull trout and westslope cutthroat trout populations.

C. Brief Project Description:

The proposed project involves Phases VI and VII of ongoing watershed restoration work by MFWP on the Marshall Creek Wildlife Management Area which was purchased in 2010. Protection and enhancement of native trout (i.e., bull trout and westslope cutthroat trout) is an emphasis on these properties and provided much of the justification and funding for public acquisition. The properties were previously owned by Plum Creek Timber Company and contain hundreds of miles of logging roads. In this ongoing program, we have surveyed and prioritized all streams and road systems on the properties. Aquatic enhancement work focuses on restoring the integrity of headwater basins adjacent to and upstream of known spawning and rearing area for native trout. This work was completed on Marshall Creek and the West Fork Clearwater River in 2011-2015 (Phases 1-5). Present work will focus on the third major drainage on the WMA: Deer Creek (see attached maps). The proposed restoration project includes removal of numerous undersized culverts, road decommissioning/storage, stream reconstruction at crossings, and large scale revegetation on two road systems in upper Deer Creek that lie upstream of known native trout spawning and rearing areas.

D. Length of stream or size of lake that will be treated:

~ 1 mile of stream reach directly impacted
by 5-6 miles of road system

E. Project Budget:

Grant Request (Dollars): \$ 20,000

Contribution by Applicant (Dollars): \$ 21,675

In-kind \$ *See Below

(salaries of government employees are not considered as matching contributions)

Contribution from other Sources (Dollars): \$

In-kind \$

(attach verification - See page 2 budget template)

Total Project Cost: \$ 41,675 (* Does not include substantial MFWP employee salary contribution or operations)

F. Attach itemized (line item) budget – see template

G. Attach specific project plans, detailed sketches, plan views, photographs, maps, evidence of landowner consent, evidence of public support and fish biologist support, and/or other information necessary to evaluate the merits of the project. If project involves water leasing or water salvage complete supplemental questionnaire (fwp.mt.gov/habitat/futurefisheries/supplement2.doc).

H. Attach land management and maintenance plans that will ensure protection of the reclaimed area.

III. PROJECT BENEFITS*

A. What species of fish will benefit from this project?:

Migratory and stream resident bull trout, westslope cutthroat trout, and sculpin

B. How will the project protect or enhance wild fish habitat?:

Improve overall watershed health and protection of Deer Creek by reducing chronic sediment sources, facilitating stream shading and stability, and eliminating long term risk of failure and sediment delivery during severe wildfire and precipitation events.

- C. Will the project improve fish populations and/or fishing? To what extent?:

This project is intended to improve resilience and long-term enhancement of a predominantly native fish community, including bull trout and westslope cutthroat trout with high genetic purity (97% -100% purity). Deer Creek lies almost entirely on public land and is directly connected to Seeley Lake and the Clearwater chain of lakes. This project directly contributes to long term conservation of stream-resident and migratory bull trout and westslope cutthroat trout, as well as the fishery provided in main stem lakes (>30,000 angler days).

- D. Will the project increase public fishing opportunity for wild fish and, if so, how?:

Deer Creek provides westslope cutthroat trout (and bull trout) recruitment directly to Seeley lake and the Clearwater Valley chain of lakes. Fishing opportunity for stream-resident WCT will likely be improved in the long term, but consistent recruitment to the Clearwater main stem and lakes is considered a more significant angler benefit.

- E. The project agreement includes a 20-year maintenance commitment. Please discuss your ability to meet this commitment.

Not an issue. Project occurs entirely on MFWP lands and improvements are expected to be permanent with minimal maintenance (weed spraying as needed).

- F. What was the cause of habitat degradation in the area of this project and how will the project correct the cause?:

The project area was part of large block of private timber land ownership until 2010. During decades of intensive timber management, extensive road networks and other infrastructure were installed. Degradation included hydrologic modification, fish passage barriers, elevated sediment inputs, loss of riparian vegetation, etc. This ongoing project is intended to correct all of these impacts through treatment and mitigation of the headwater road system.

- G. What public benefits will be realized from this project?:

Improved watershed health, lower risk of catastrophic failure, upstream passage and increased chance of persistence for an important native population of westslope cutthroat trout and bull trout, both Montana Species of Concern. Improved fishing for stream-resident cutthroat trout and increased recruitment of bull trout westslope cutthroat trout to the Clearwater system.

- H. Will the project interfere with water or property rights of adjacent landowners? (explain):

No

- I. Will the project result in the development of commercial recreational use on the site?: (explain):

No

- J. Is this project associated with the reclamation of past mining activity?:

No

Each approved project sponsor must enter into a written agreement with the Department specifying terms and duration of the project.

IV. AUTHORIZING STATEMENT

I (we) hereby declare that the information and all statements to this application are true, complete, and accurate to the best of my (our) knowledge and that the project or activity complies with rules of the Future Fisheries Improvement Program.

Applicant Signature:

William L. Fiteb

Date:

5/30/17

Sponsor (if applicable):

*Highlighted boxes will automatically expand.

Mail To: Montana Fish, Wildlife & Parks
Habitat Protection Bureau
PO Box 200701
Helena, MT 59620-0701

E-mail To: Michelle McGree
mmcgree@mt.gov
(electronic submissions MUST be signed)

Incomplete or late applications will be rejected and returned to applicant.
Applications may be rejected if this form is modified.

Applications may be submitted at anytime, but must be signed and received by the Future Fisheries Program Officer in Helena before December 1 and June 1 of each year to be considered for the subsequent funding period.

Deer Creek road decommissioning
BUDGET TEMPLATE SHEET FOR FUTURE FISHERIES PROGRAM APPLICATIONS

Both tables must be completed or the application will be returned

WORK ITEMS (ITEMIZE BY CATEGORY)	NUMBER OF UNITS	UNIT DESCRIPTION*	COST/UNIT	TOTAL COST	CONTRIBUTIONS			
					FUTURE FISHERIES REQUEST	IN-KIND SERVICES**	IN-KIND CASH	TOTAL
Personnel***								
Survey	65	Hours		\$ -		Completed by FWP	Employees	\$ -
Design	20	Hours		\$ -		Completed by FWP	Employees	\$ -
Engineering	40	Hours		\$ -		Completed by FWP	Employees	\$ -
Permitting	20	Hours		\$ -		Completed by FWP	Employees	\$ -
Oversight	200	Hours		\$ -		Completed by FWP	Employees	\$ -
				\$ -				\$ -
			Sub-Total	\$ -	\$ -	\$ -	\$ -	\$0.00
Travel								
Mileage				\$ -		Completed using FWP Vehicles		\$ -
Per diem				\$ -		Completed by FWP	Employees	\$ -
			Sub-Total	\$ -	\$ -	\$ -	\$ -	\$0.00
Construction Materials****								
				\$ -				\$ -
Native Grass Seed (weed free)	400	lbs	\$5/lb	\$ 2,000.00			2,000.00	\$ 2,000.00
				\$ -				\$ -
				\$ -				\$ -
			Sub-Total	\$ 2,000.00	\$ -	\$ -	\$ 2,000.00	\$ 2,000.00
Equipment and Labor								
Excavator w/operator	240	Hours	\$110.00	\$ 26,400.00	15,000.00		11,400.00	\$ 26,400.00
Dump Truck	85	Hours	\$75.00	\$ 6,375.00	3,000.00		3,375.00	\$ 6,375.00
Skid Steer	90	Hours	\$60.00	\$ 5,400.00	2,000.00		3,400.00	\$ 5,400.00
				\$ -				\$ -
				\$ -				\$ -
Manual Labor	120	Hours		\$ -		Completed by FWP	Employees	\$ -
			Sub-Total	\$ 38,175.00	\$ 20,000.00	\$ -	\$ 18,175.00	\$ 38,175.00
Mobilization								
Mob/Demob	2	Lump	\$750.00	\$ 1,500.00			1,500.00	\$ 1,500.00
				\$ -				\$ -
				\$ -				\$ -
				\$ -				\$ -
			Sub-Total	\$ 1,500.00	\$ -	\$ -	\$ 1,500.00	\$ 1,500.00
TOTALS				\$ 41,675.00	\$ 20,000.00	\$ -	\$ 21,675.00	\$ 41,675.00

OTHER REQUIREMENTS:

Deer Creek road decommissioning
BUDGET TEMPLATE SHEET FOR FUTURE FISHERIES PROGRAM APPLICATIONS

All of the columns in the budget table and the matching contribution table MUST be completed appropriately or the application will be invalid. Please see the example budget sheet for additional clarification.

*Units = feet, hours, inches, etc. Do not use lump sum unless there is no other way to describe the costs.

**Can include in-kind materials. Justification for in-kind labor (e.g. hourly rates used for calculations). Describe here or in text.

Reminder: Government salaries cannot be used as in-kind match

***The Review Panel suggests that design and oversight costs associated with a proposed project not exceed 15% of the total project budget. If design and oversight costs are in excess of 15%, applications must include a minimum of two competitive bids for the cost of undertaking the project.

****The Review Panel recommends a maximum fencing cost of \$1.50 per foot. Additional costs may be the responsibility of the applicant and/or partners.

MATCHING CONTRIBUTIONS (do not include requested funds)

CONTRIBUTOR	IN-KIND SERVICE	IN-KIND CASH	TOTAL	Secured? (Y/N)
Milltown Dam Bull Trout Mitigation Funds (Held by FWP)	\$ -	\$ 21,675.00	\$ 21,675.00	Yes
(Northwestern Energy)	\$ -	\$ -	\$ -	
	\$ -	\$ -	\$ -	
	\$ -	\$ -	\$ -	
	\$ -	\$ -	\$ -	
	\$ -	\$ -	\$ -	
	\$ -	\$ -	\$ -	
	\$ -	\$ -	\$ -	
	\$ -	\$ -	\$ -	
	\$ -	\$ -	\$ -	
	\$ -	\$ -	\$ -	
TOTALS	\$ -	\$ 21,675.00	\$ 21,675.00	

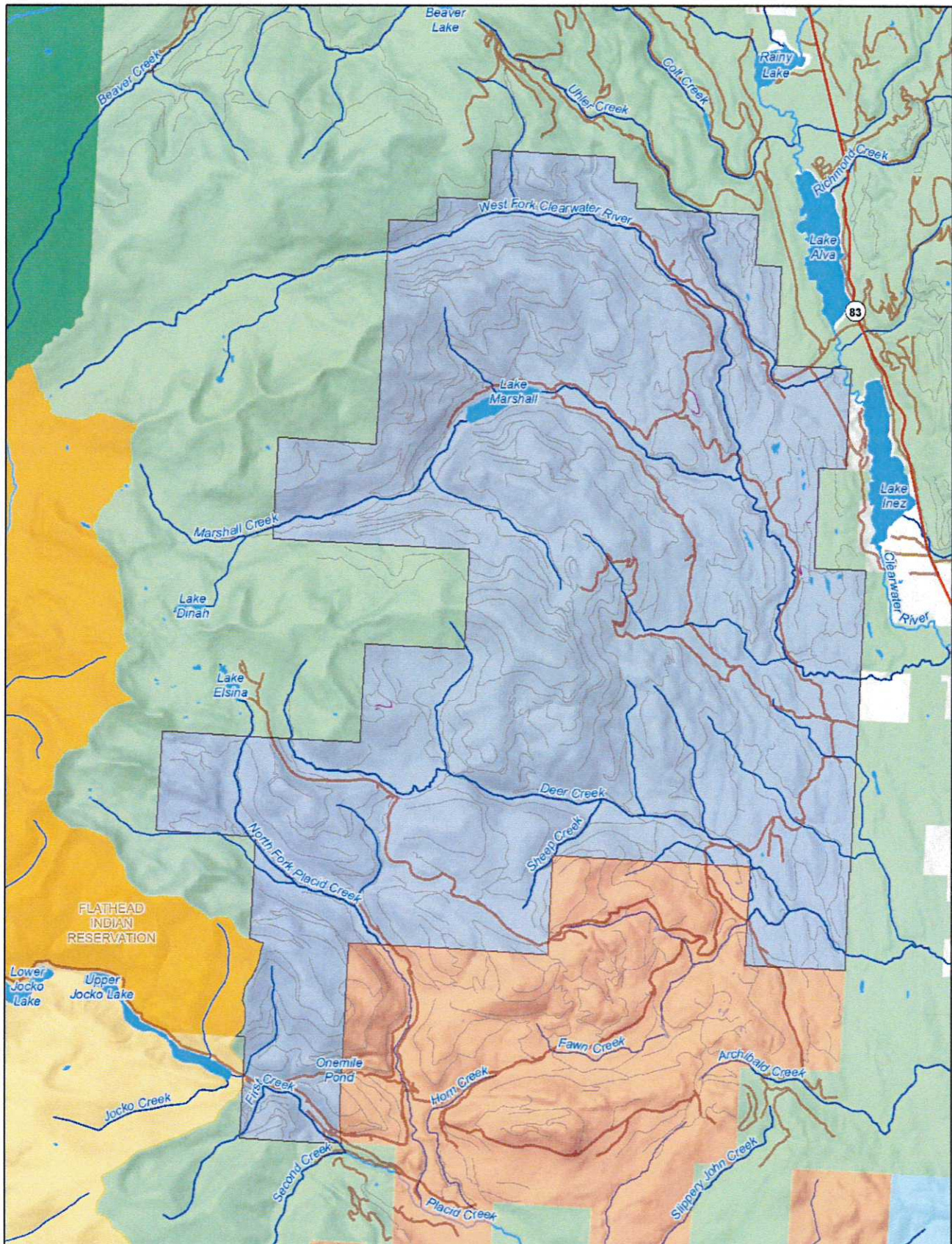
Land Management and Maintenance Plan

This ongoing project occurs entirely on publicly owned and managed lands within the Marshall Creek Wildlife Management Area. These MFWP lands were recently acquired to benefit numerous fish and wildlife species, but particularly native trout, large carnivores, and big game ungulate species. Ongoing maintenance is completed by MFWP staff.

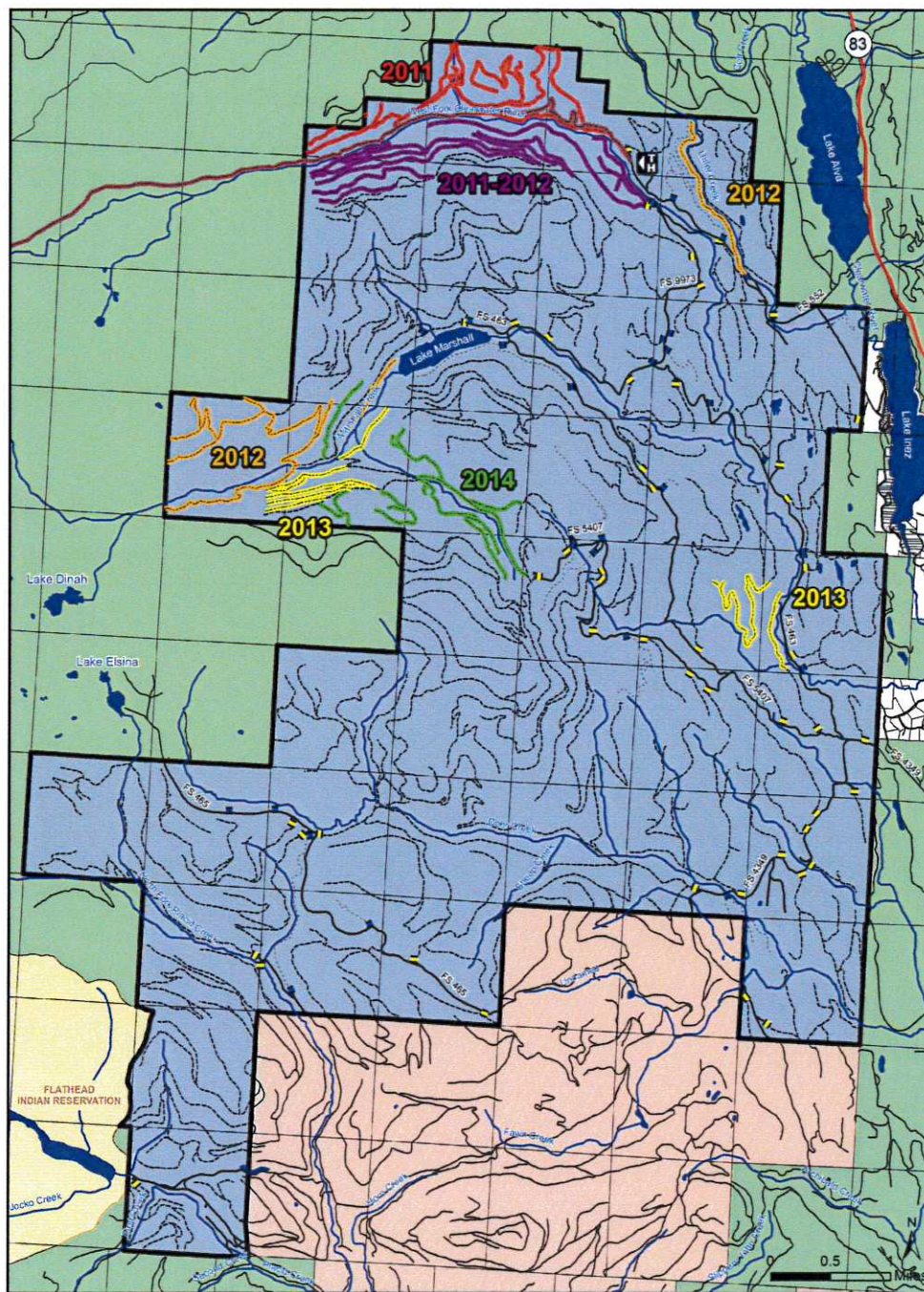
Once completed, project areas require no maintenance other than spot weed spraying and monitoring of former stream crossing sites that have been restored. Due to the high amount of precipitation, high elevation, and thick forest vegetation on these properties, noxious weeds are typically only problematic along road corridors. These areas have been the focus for noxious weed spraying on portions of the overall project completed over the past 6 years.

Marshall Creek Wildlife Management Area

(Purple)



Locations of recent fish passage and road decommissioning work on the Marshall Creek WMA (2011-2015). Color-coded segments indicate annual phases for completed restoration work on Marshall Cr. and the W. Fork Clearwater River within and upstream of native trout spawning and rearing areas.



Marshall Creek Wildlife Management Area

Disclaimer - This map is not intended to depict property ownership outside of the Wildlife Management Area. Contact the appropriate land management agency for information on public land ownership and travel guidelines.



Montana Fish & Wildlife

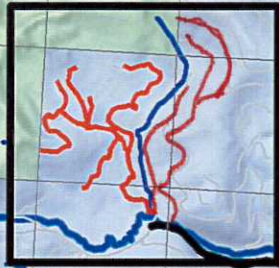
- MT Fish, Wildlife & Parks
- US Forest Service
- The Nature Conservancy
- Indian Reservation
- Private
- Lake

- Stream
- Open Road
- Closed Road (Gated)
- Closed Road (Barrier)
- Decommissioned Roads
- Non-Motorized Trail



Map produced by:
Montana Fish, Wildlife and Parks
3201 Spurgeon Road
Missoula, MT 59804
W. Schreck, December 2, 2015

Deer Creek Road Work 2017-



8 mi

5 mi

DEER CR.

Seeley Lake

Legend

-  Project Site Roads
-  US Forest Service
-  MT Fish, Wildlife & Parks
-  State Trust Lands
-  Other State Lands
-  Local Government
-  The Nature Conservancy

0

2.5

5

Miles

Example photos of problematic road segments adjacent to upper Deer Creek within the 2017-2018 project area.

